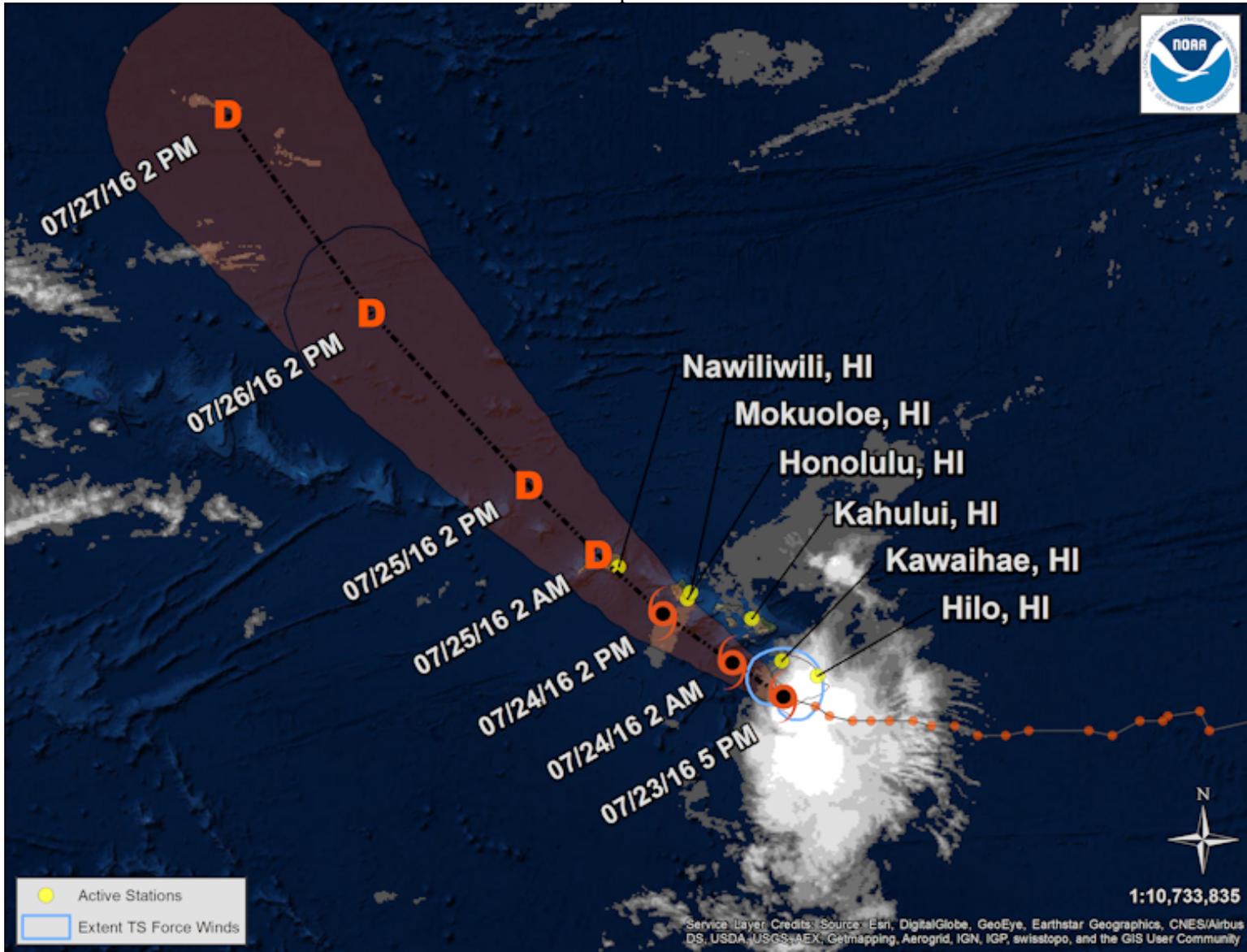




Tropical Storm DARBY QuickLook
Posted: 18:00 HST 07/23/2016

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

The center of Darby made landfall over the southeastern portion of the Big Island near Pahala around 2pm.

As of 07/23/2016 18:00 HST, water levels across the Hawaiian Islands are slightly elevated and range between 0.15 and 0.50 ft above normal tide levels. Winds are slowly increasing and range between 10 and 20 knots with some gusts over 30 knots. Barometric pressure continues to fall across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: AJC

SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM DARBY ADVISORY NUMBER 50

NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI

500 PM HST SAT JUL 23 2016

...DARBY MOVING OVER MAUNA LOA SLOPES...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

A Tropical Storm Warning has been issued for Kauai County, including the islands of Kauai and Niihau.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

- * Hawaii County
- * Maui County, including the islands of Maui, Molokai, Lanai and Kahoolawe
- * Oahu
- * Kauai County, including the islands of Kauai and Niihau

A Tropical Storm Warning means that tropical storm conditions are expected within the warning area within 36 hours. In this case, tropical storm conditions are occurring over portions of the Big Island, and are expected over Maui County and Oahu within 24 hours.

Interests in the eastern portion of the Papahānaumokuākea Marine National Monument should monitor the progress of Darby.

For storm information specific to your area, please monitor products issued by the National Weather Service office in Honolulu.

DISCUSSION AND 48-HOUR OUTLOOK

At 500 PM HST, the center of Tropical Storm Darby was located about 25 MI SSE of Kailua-Kona, Hawaii. Darby is moving toward the west near 10 mph. Darby is forecast to make a turn toward the northwest later tonight and continue moving northwestward over the next 48 hours, with little change in forward speed.

Maximum sustained winds are near 40 mph with higher gusts.

Slight weakening is forecast during the next 48 hours.

Tropical-storm-force winds extend outward up to 70 miles from the center. Sustained winds of 43 mph and wind gusts to 61 mph were been reported in Kohala Ranch on the Big Island earlier this afternoon.

The estimated minimum central pressure is 1006 mb.

HAZARDS AFFECTING LAND

WIND: Tropical storm force winds are expected over the Big Island through this evening, over portions of Maui County tonight and Sunday, over Oahu Sunday and Sunday night, and over Kauai County Sunday night and Monday.

SURF: Swells generated by Darby are expected to impact the Hawaiian Islands over the next day or so, with swells diminishing thereafter.

RAINFALL: Storm total rainfall of 8 to 12 inches, with possible isolated maximum amounts of 15 inches. These rains could produce life-threatening flash floods and landslides.

NEXT ADVISORY

Next intermediate advisory at 800 PM HST.

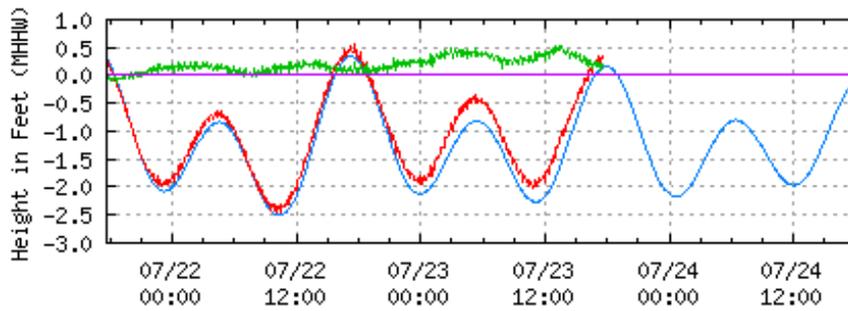
Next complete advisory at 1100 PM HST.

Forecaster Birchard

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#), [Kahului, Kahului Harbor - Barometric](#), [Mokuoloe - Water Level](#), [Mokuoloe - Winds](#), [Mokuoloe - Barometric](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Honolulu - Barometric](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#), [Nawiliwili - Barometric](#)

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI
 Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide ——— blue ———
 Observed WL ——— red ———
 (Obs-Pred) ——— green ———
 MHHW ——— purple ———

Last Observed Sample: 07/23/2016 17:30 (HST). Data relative to MHHW

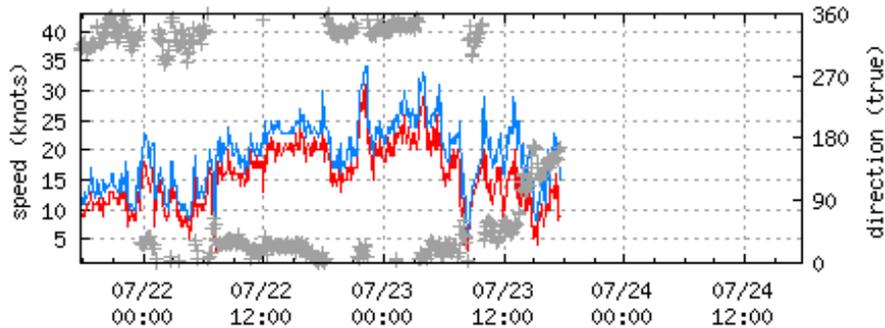
Observed: 0.33 ft. Predicted: 0.14 ft. Residual: 0.19 ft.

Historical Maximum Water Level: Jan 20 1981, 1.37 ft.

Next High Tide: 07/23/2016 17:55 (HST), 0.16 ft.

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI

Wind Speed / Gusts / Direction

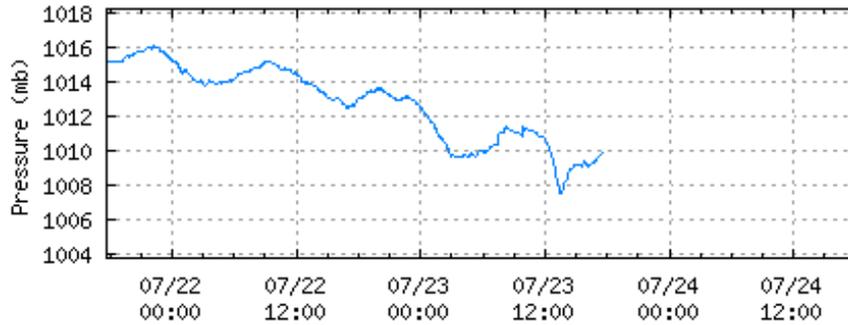


speed ——— red ——— gusts ——— blue ——— direction +

Last Observed Sample: 07/23/2016 17:30 (HST)

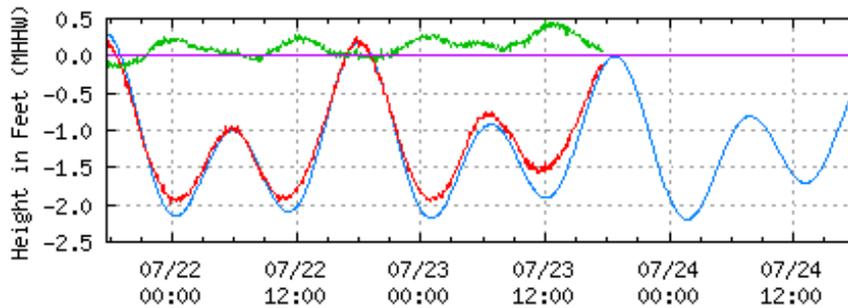
Wind Speed: 9 knots Gusts: 15 knots Direction: 167° T

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 07/23/2016 17:30 (HST)
Barometric Pressure: 1009.9 mb

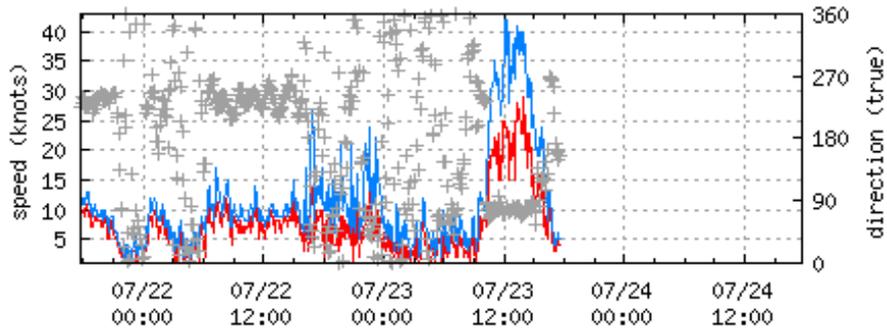
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

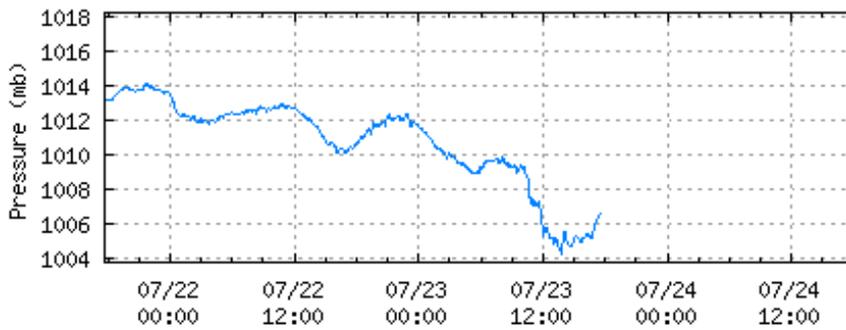
Last Observed Sample: 07/23/2016 17:30 (HST). Data relative to MHHW
Observed: -0.13 ft. Predicted: -0.18 ft. Residual: 0.05 ft.
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.
Next High Tide: 07/23/2016 18:46 (HST), -0.01 ft.

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Wind Speed / Gusts / Direction



speed — gusts — direction +
Last Observed Sample: 07/23/2016 17:30 (HST)
Wind Speed: 4 knots Gusts: 5 knots Direction: 154° T

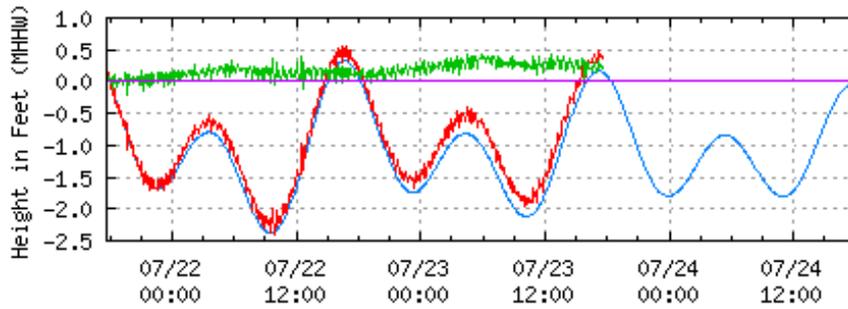
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Barometric Pressure



barometric pressure —

Last Observed Sample: 07/23/2016 17:30 (HST)
Barometric Pressure: 1006.6 mb

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI
 Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Predicted Tide ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

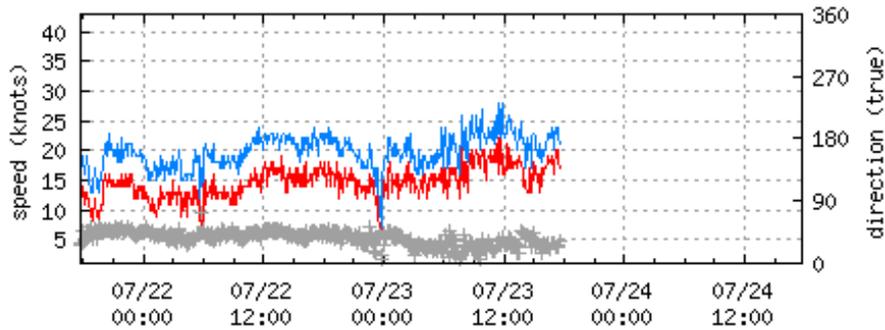
Last Observed Sample: 07/23/2016 17:30 (HST). Data relative to MHHW

Observed: 0.37 ft. Predicted: 0.15 ft. Residual: 0.22 ft.

Historical Maximum Water Level: Dec 20 1968, 1.23 ft.

Next High Tide: 07/24/2016 05:23 (HST), -0.84 ft.

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI
 Wind Speed / Gusts / Direction

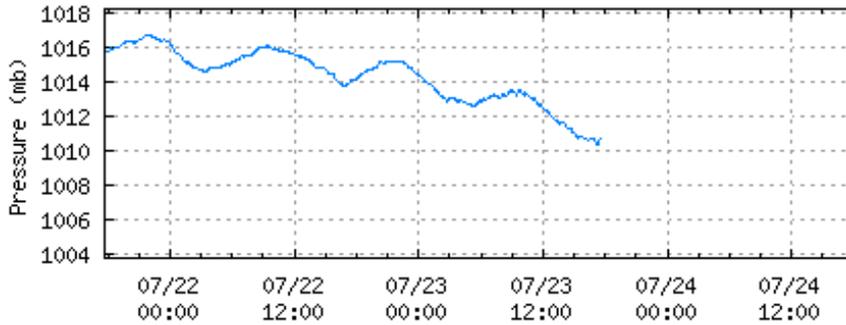


speed ——— gusts ——— direction +

Last Observed Sample: 07/23/2016 17:30 (HST)

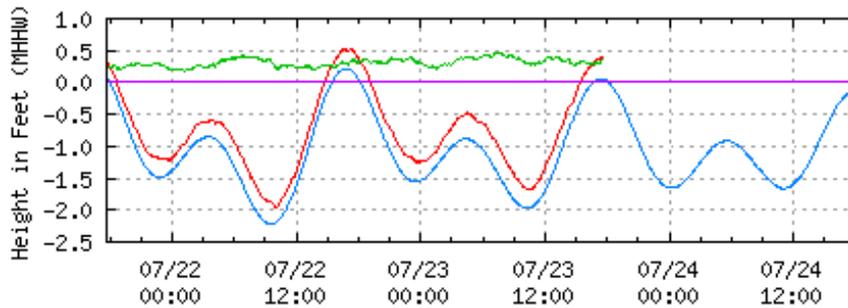
Wind Speed: 17 knots Gusts: 21 knots Direction: 32° T

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 07/23/2016 17:30 (HST)
Barometric Pressure: 1010.7 mb

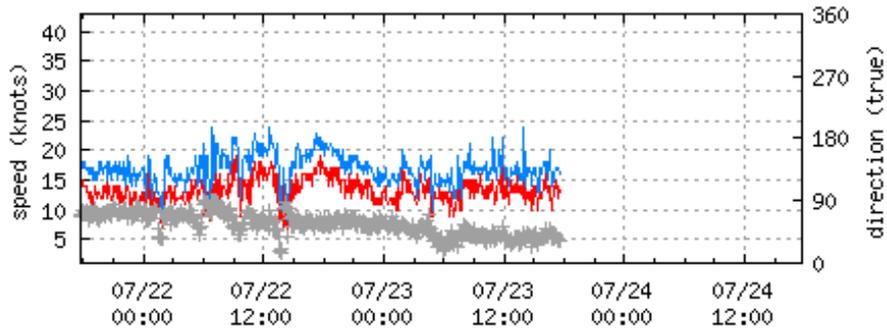
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

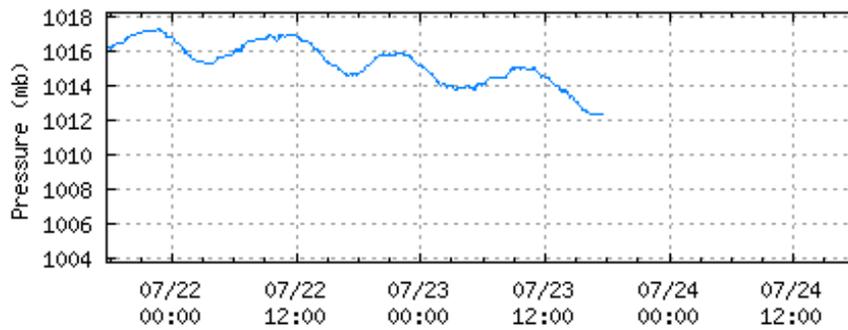
Last Observed Sample: 07/23/2016 17:30 (HST). Data relative to MHHW
Observed: 0.40 ft. Predicted: 0.05 ft. Residual: 0.35 ft.
Historical Maximum Water Level: Jan 8 1974, 1.46 ft.
Next High Tide: 07/24/2016 05:35 (HST), -0.92 ft.

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Wind Speed / Gusts / Direction



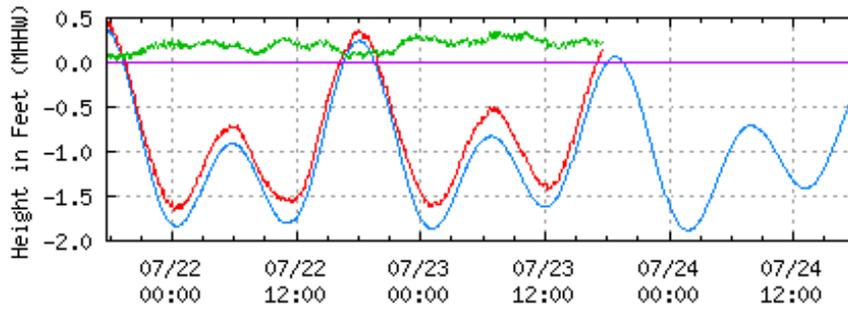
speed — gusts — direction +
Last Observed Sample: 07/23/2016 17:30 (HST)
Wind Speed: 13 knots Gusts: 16 knots Direction: 31° T

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 07/23/2016 17:30 (HST)
Barometric Pressure: 1012.4 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Predicted Tide ——— (Obs-Pred) ———
Observed WL ——— MHHW ———

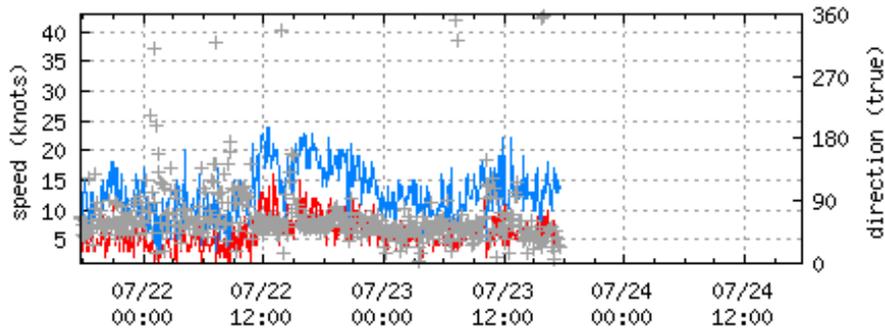
Last Observed Sample: 07/23/2016 17:30 (HST). Data relative to MHHW

Observed: 0.14 ft. Predicted: -0.09 ft. Residual: 0.23 ft.

Historical Maximum Water Level: Feb 14 1967, 1.49 ft.

Next High Tide: 07/23/2016 18:46 (HST), 0.06 ft.

NOAA/NOS/CO-OPS 1612340 Honolulu, HI
Wind Speed / Gusts / Direction

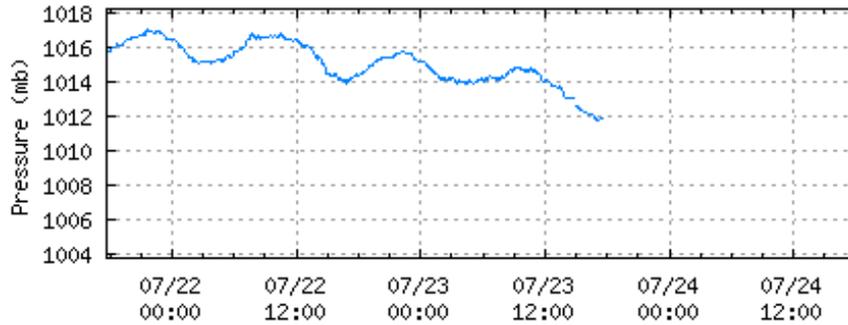


speed ——— gusts ——— direction +

Last Observed Sample: 07/23/2016 17:30 (HST)

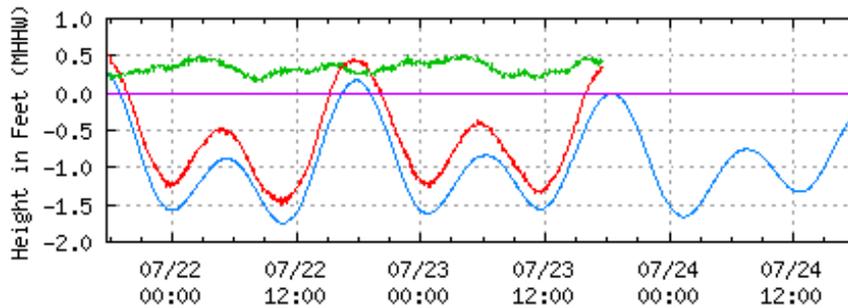
Wind Speed: 5 knots Gusts: 14 knots Direction: 24° T

NOAA/NOS/CO-OPS 1612340 Honolulu, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 07/23/2016 17:30 (HST)
Barometric Pressure: 1011.9 mb

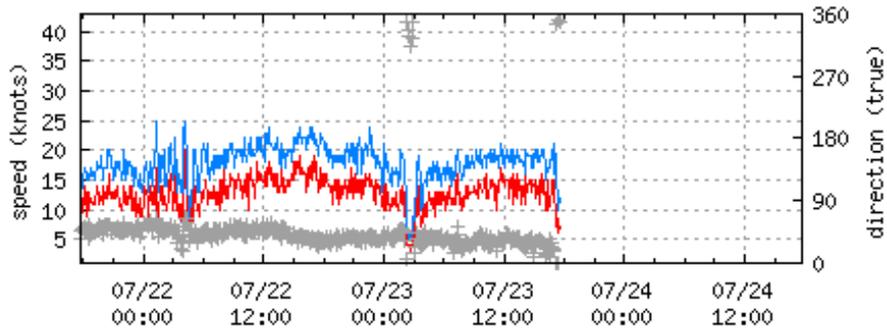
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

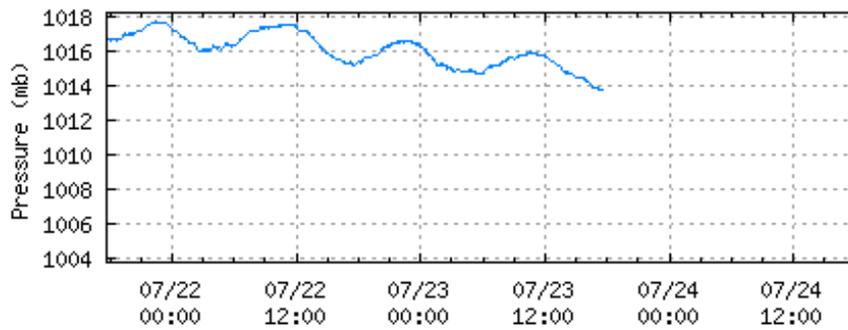
Last Observed Sample: 07/23/2016 17:30 (HST). Data relative to MHHW
Observed: 0.35 ft. Predicted: -0.07 ft. Residual: 0.42 ft.
Historical Maximum Water Level: Sep 11 1992, 3.15 ft.
Next High Tide: 07/23/2016 18:27 (HST), -0.00 ft.

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI
Wind Speed / Gusts / Direction



speed — red — gusts — blue — direction +
Last Observed Sample: 07/23/2016 17:30 (HST)
Wind Speed: 7 knots Gusts: 12 knots Direction: 349° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI
Barometric Pressure



barometric pressure — blue —

Last Observed Sample: 07/23/2016 17:30 (HST)
Barometric Pressure: 1013.8 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	07/23/2016 17:30 (HST)	0.33 ft	0.14 ft	0.19 ft	0.55 ft
1617433	Kawaihae, HI	07/23/2016 17:30 (HST)	-0.13 ft	-0.18 ft	0.05 ft	0.25 ft
1615680	Kahului, Kahului Harbor, HI	07/23/2016 17:30 (HST)	0.37 ft	0.15 ft	0.22 ft	0.49 ft
1612480	Mokuoloe, HI	07/23/2016 17:30 (HST)	0.40 ft	0.05 ft	0.35 ft	0.51 ft
1612340	Honolulu, HI	07/23/2016 17:30 (HST)	0.14 ft	-0.09 ft	0.23 ft	0.36 ft
1611400	Nawiliwili, HI	07/23/2016 17:30 (HST)	0.35 ft	-0.07 ft	0.42 ft	0.45 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce